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Nuclear Export Control

Center for International Threat Reduction (CITR) capabilities include technical support for defining and enforcing internationally agreed guidelines that permit legitimate nuclear commerce while stopping or slowing illicit transfers.

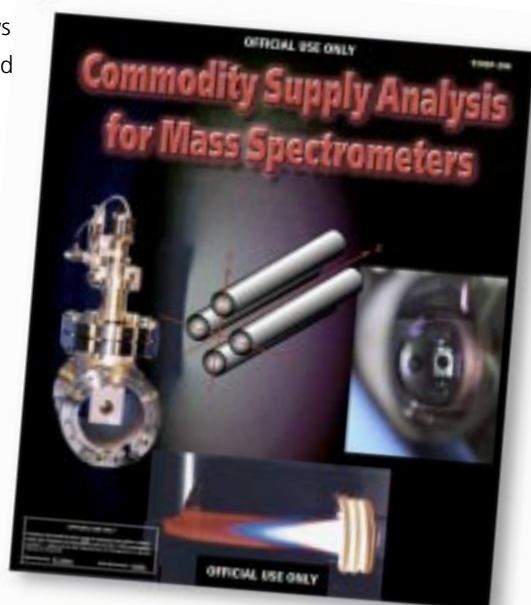
Technical Support to U.S. Agencies —

Over the past three decades, Oak Ridge has provided support for national and international nuclear export control as a key part of U.S. foreign policy and national security. From reviews of proposed exports of nuclear and nuclear dual use equipment, materials, and technology to assessments of diversion and proliferation risk, the Oak Ridge team brings to bear experience and a broad information base. Proprietary information from U.S. exporters is fully protected and used solely for the assessment response. As appropriate, all-source information may be used for technical assessments. Oak Ridge also provides expert technical support for the Department of Energy's (DOE's) nuclear technology security mission through security classification reviews, export-

controlled information (ECI) reviews, and DOE surplus property predisposal reviews (see photo at top).

Such reviews allow the identification of sensitive equipment,

materials, and technical information that should be altered or removed prior to publication or other intentional decontrol. Local export control specialists are able to consult CITR for technical



A commodity supply analysis (such as this one for mass spectrometers) explains the technology and why it is controlled. It also catalogs world availability.



Confirming destruction of sensitive nuclear technology items scrapped from 1980s uranium enrichment upgrade program. Scrap disposition is one of DOE's programs at the East Tennessee Technology Park.

assistance. If requested by DOE, expert technical testimony may be provided for enforcement and juridical purposes.

Examples of Oak Ridge technical surveys of world capabilities for supply of export controlled goods include:

- High Strength Aluminum Alloys
- Ring Magnets
- Mass Spectrometers
- Frequency Changers
- High Precision Machine Tools
- Maraging Steel
- Vacuum & Controlled Atmosphere Furnaces
- Fibrous & Filamentary Materials
- Filament Winding Machines

Cooperation with Russian Counterparts —

With its rich background in supporting U.S. agencies and the end of the Cold War, Oak Ridge was a logical choice to team with other U.S. national laboratories for DOE's program of technical collaboration with Russian Nuclear Export Control Laboratories. This relationship has fostered greater shared understanding of proliferation risks and sharing of nuclear export control methods and joint reviews

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of multinational Nuclear Supplier's Group definitions. Initiated in 1996, this program of cooperation has been closely coordinated with related Department of State activities and those implemented for State by the Department of Commerce. These activities have encouraged Russian officials during restructuring and strengthening of national legislation and internal review processes. The dual objectives of this program are to encourage the emergence of new exporters from within the nuclear industrial complex of Russia and to ensure these exports do not contribute to the proliferation of nuclear capabilities.

Enforcement Cooperation with Russia's Customs Service —

Another area of cooperation with Russia is answering requests for assistance from the Russian Customs Service.

Coping with enormous borders and the need to verify legitimate nuclear exports as well as to detect illegal attempts, Russian Customs has begun to incorporate nuclear export control experience and training. Together with the Los Alamos and Lawrence Livermore national laboratories, Oak Ridge has leveraged technical nuclear know how, past successes in export control, experience gained from assisting the U.S. Customs Service, modern training methods, and Russian radioactive materials detection capabilities to accelerate the introduction of sustainable improvements. Called the "Second Line of Defense," this program is part of the threat reduction measures of the two governments with regard to nuclear materials custody and control in the Newly Independent States of the former Soviet Union.

For further information, please contact Steve Baker, Team Leader for Nuclear Export Control, (865) 576-0143, bakerst@y12.doe.gov. Secure communications are readily available.

Director's Note

Oak Ridge carries out technical support for nuclear export control for the states of the former Soviet Union via government-to-government agreements. Some of these activities are highlighted in this newsletter. The enormously successful Second Russian International Conference on Material Protection, Control, and Accounting (MPC&A) was just completed at the Institute for Physics and Power Engineering at Obninsk, Russia. This was a Russian conference for Russians sponsored by the U.S. Department of Energy MPC&A Program. The leaders and advocates for MPC&A activities from nearly every Russian nuclear facility attended as well as a variety of Russian and Western security and safeguards equipment vendors. This conference exemplified the blossoming MPC&A culture and awareness in Russia.

—Larry Satkowiak



Export control technical talks with Russian counterparts in the Closed Nuclear City of Snezhinsk near Yekaterinburg. Surrounding the group are the largest and smallest nuclear weapons

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